

Figure 1-A
T. reesei *bg4* nucleotide sequence (non-coding is in bold, coding is in regular font)

TIGETE™ 100× 200™

Figure 1-B
T. reesei *bg4* nucleotide sequence (non-coding is in bold, coding is in regular font)

BGL4 Beta-Glucosidase and Nucleic Acids
Encoding the Same
Dunn-Coleman et al.
SN# Unassigned
Docket No. GC696
Sheet 2 of 4

AGCTCATTGCCGACGTGGCCCGCGAACCCAAACACCCGTCTGGTCATGCCAGACGGGCCACCCCGAGGAGATGCCCTGGCG
TCGACGCCACGGCCGGCGCTCATCCAGGCCCTGGTAAGGAGACGGCAACTCCATGCCGAGCTCGTCTTTGGCG
ACTACAACCCCTCGGGCAAGCTGTCCTAGCTTCCCACGGGACAACCCGGTCTCAACTTCGCACCG
AGGCCGGCGCACGGTACGGGAGCGTCTACGTGGTACAGGTACTACGAGTTGGGACAAGGACGTCATTCC
CCTTGGCCACGGCCCTACACCACTTTGCCTTTCCAATCTCCGGTGTCTACAAGGACGGCAAGCTGAGCGTGT
CCCTCTCCGTGAAGAACACCGGCTCCGGCACAGGTGGCCAGCTACGTCAAAGGCCCTCCAAGGGCAAGA
TTAACCGGCCGTCAAGGAGCTCAAGGGCTTGCACAGGTGCAACTGGCAGGCCGGAGACGAAGGGCGTGA
AGCAGGGAGAAGTACGTGGCTGGTATTGATGAGGGGATCACTGGTGTGTCGAAAGGGTGA
TGAGCCGACAGCAGCCAGGGTGGCTCAGGGTAAGTTACGGTGGAGAGCGTATGGTGTCTGGCG
TGTAAAGTCGTGCATCATCTTGGCAGATTGAATCCAGTCACTTGGCATATAAGGCCGATGA
TGTGTAAAAAA⁶⁰AAAAAA⁷³AAAAAA⁸⁰AAAAAA⁸⁶AAAAAA⁹³AAAAAA¹⁰⁰AAAAAA¹⁰⁶AAAAAA¹¹³AAAAAA¹²⁰AAAAAA¹²⁶AAAAAA¹³³AAAAAA¹⁴⁰AAAAAA¹⁴⁶AAAAAA¹⁵³AAAAAA¹⁶⁰AAAAAA¹⁶⁶AAAAAA¹⁷³AAAAAA¹⁸⁰AAAAAA¹⁸⁶AAAAAA¹⁹³AAAAAA¹⁹⁶AAAAAA²⁰⁰

TOBTAT" 000200"

Figure 2-A

Predicted *T. reesei* BGL4 amino acid sequence

BGL4 Beta-Glucosidase and Nucleic Acids
Coding the Same
Dunn-Coleman et al.
SN# Unassigned
Docket No. GC696
Sheet 3 of 4

MADIDVEAIL	KKLTIAEKVD	LLAGIDFWHT	KALPKHGVPS	LRFTDGPNGV	RGTKFNGVP	AACFP CGTSL
10	20	30	40	50	60	70
GSTFNQTLLE	EAGKMMGKEA	IAKSAHVLG	PTINMQRSPSPL	GCRGFESIGE	DFFLAGLGAA	ALIRGIQSTG
80	90	100	110	120	130	140
VOATIKHFLC	NDQEDRRMMV	QSI VTERALR	EIYALPPEQIA	VRDSQPQGAEM	TAYNGINGVS	CSENPKYLDG
150	160	170	180	190	200	210
MLRKIEWGWDG	LIMSDWYGY	STEAVVAGL	DIEMPGPPRF	RGETIKFNVS	NGKPFIIHVID	QRAREVLFQFV
220	230	240	250	260	270	280
KKCAASGVTE	NGPETTVNNNT	PETAALLRKV	GNEGIVLKN	ENNVLPLSKK	KKTLIVGPNAA	KQATYHGGGS
290	300	310	320	330	340	350
AALRAYYAVT	PF DGLSKQLE	TPPSYTVGAY	TTVPPILGEQ	CLTPDGAPGM	RWRVFNEPPG	TPNRQHIDEL
360	370	380	390	400	410	420
FFT KTD MHLV	DYYHPKAADT	WYADMEGTYT	ADEDCTYELG	LWVCGTAKAY	VDDQLVVDNA	TKQVPGDAFF
430	440	450	460	470	480	490
GSATREETGR	INLVKGNTYK	FKIEFGSAPT	YTLKGDTIVP	GHGSLRVGGC	KVIDDQAEIE	KSVALAKEHD
500	510	520	530	540	550	560
QVIIICAGLNA	DWETEGADRA	SMKLPGVLDQ	LIADVAANP	NTVVVMQTGT	PEEMPWLDT	PAVIQAWYGG
570	580	590	600	610	620	630

Figure 2-B
Predicted *T. reesei* BGL4 amino acid sequence

NETGNSIADV	VFGDYNPSGK	LSLSFPKRLQ	DNP AFLNFR T	EAGR TLYGED	VYVG YRYYE F	ADKD VNFPFG	
640	650	660	670	680	690	700	
HGLSYTTFAF	SNL SVSHKDG	KLSV SLSVKN	TGSV PGQA QVA	QLYV KPLQAA	KINR PVKELK	GFAK VELQPG	
710	720	730	740	750	760	770	
ETKAVTIEEQ	EKYVAA YFDE	ERDQWC VKEKG	DYE VIVSDSS	AKDGVALRG	KFTVGETYWW	SGV	
780	790	800	810	820	830	833	